

WARDS ISLAND

**City of New York
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Wastewater Treatment**

**WARDS ISLAND
WASTEWATER TREATMENT PLANT**

US EPA 40 CFR Part 503
Use or Disposal of Sewage Sludge
2013 Annual Report

Prepared for

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by

City of New York, Department of Environmental Protection
Bureau of Wastewater Treatment
SPDES Compliance Section
96-05 Horace Harding Expressway
Corona, New York 11368
(718) 595-5056



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Requisite information, specific to the Wards Island WWTP is provided below.

FACILITY NAME	LOCATION	DEWATERING FACILITY	SPDES PERMIT #	CONTACT PERSON	PROCESS ENGINEER
Wards Island Wastewater Treatment Plant	Wards Island New York, NY 10035	Yes	NY0026131	Superintendent John McCabe (212) 860-9351	Steven Moltz

Additional Permits

Facility Name	Location	Permit Name	Permit #	Type of Permit (Federal, State)
Wards Island Wastewater Treatment Plant	Wards Island New York, NY 10035	Air State Facility Permit	262030000500049	State

I. WARDS ISLAND LIQUID SLUDGE QUANTITIES

A. LIQUID SLUDGE PRODUCTION AND OUTGOING LIQUID SLUDGE ALLOCATIONS

For the reporting period of January 1 through December 31, 2013 all anaerobically digested, thickened sewage sludge generated at Wards Island was dewatered at the Wards Island sludge dewatering facility. Approximately **25,006** dry metric tons of Wards Island sludge were generated. Table 3 and Table 4A of Appendix A contains the monthly liquid sludge production and allocation figures in dry metric tons for this reporting period.

II WARDS ISLAND LIQUID SLUDGE AND BIOSOLIDS QUALITY

A. METALS ANALYSES

Table 5A and Table 5B of Appendix B summarize the average monthly metals concentrations for the liquid sludge and biosolids generated at the Wards Island WWTP. The monthly metals concentrations represent an arithmetic average of the results from the analyses of all samples of Wards Island biosolids generated each month.

During this reporting period, Wards Island biosolids contained concentrations of metals that always met the **Ceiling Concentration Limits** for twelve (12) months as listed in *Table 1 of 40 CFR Part 503.13(b)(1)*. Further, during twelve (12) months in 2013, Wards Island biosolids contained concentrations of metals that met the **Pollutant Concentration Limits** as listed in *Table 3 of 40 CFR Part 503.13(b)(1)*.

III. WARDS ISLAND BIOSOLIDS ALLOCATIONS

BIOSOLIDS FROM THE WARDS ISLAND WASTEWATER TREATMENT PLANT DISTRIBUTED TO SLUDGE MANAGEMENT CONTRACTORS AT THE WARDS ISLAND DEWATERING FACILITY. (SUMMARY IS SHOWN IN TABLE 4B IN APPENDIX B).

A. Tully Environmental under Contract 947ADM3

Approximately 634.93 dry metric tons of the biosolids mix were distributed to **Tully Environmental** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

B. EPIC under Contract 1247-BIO

Approximately 7,320.02 dry metric tons of the biosolids mix were distributed to **EPIC** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

C. Coastal Distribution under Contract 1250-BIO

Approximately 7,808.74 biosolids mix from the Wards Island dewatering facility was distributed to **Coastal Distribution** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

D. Interstate Waste Services under Contract 1280-BIO

Approximately 252.42 dry metric tons of the biosolids mix were distributed to **Interstate Waste Services** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

E. We Care Organics under Contract 1236-BIO

Approximately 7,560.58 dry metric tons of the biosolids mix were distributed to **We Care Organics** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

F. We Care Organics under Contract 1308-BIO

Approximately 3,584.72 dry metric tons of the biosolids mix were distributed to **We Care Organics** (see introduction for processing details) from the Wards Island dewatering facility during this reporting period.

Table 2 in the introduction contains requisite information specific to each of the eight sludge management contractors.

APPENDICES

APPENDIX - A

Table 3.....	Monthly Liquid Sludge Allocation
Table 4A.....	Monthly Liquid Sludge Allocations to Contractors
Table 4B.....	Monthly Biosolids Allocations to Contractors

Table 3
Monthly Liquid Sludge Production
Wards Island WWTP

Month	Liquid Sludge Production (DMT)*
January-13	1,653
February-13	1,932
March-13	1,875
April-13	2,370
May-13	2,296
June-13	1,825
July-13	1,884
August-13	1,873
September-13	1,902
October-13	2,059
November-13	2,182
December-13	3,154
TOTALS	25,006

Notes:

* Dewatered sludge production is expressed in dry metric tons (DMT).

Table 4A
Monthly Liquid Sludge Allocations
Wards Island WWTP

Month	26th Ward (DMT)*	Bowery Bay (DMT)*	Hunts Point (DMT)*	Jamaica (DMT)*	Oakwood Beach (DMT)*	Red Hook (DMT)*	North River (DMT)*	Wards Island (DMT)*	PVSC (DMT)*	TOTALS (DMT)*
Jan-13										0.00
Feb-13										0.00
Mar-13										0.00
Apr-13										0.00
May-13										0.00
Jun-13										0.00
Jul-13										0.00
Aug-13										0.00
Sep-13										0.00
Oct-13										0.00
Nov-13										0.00
Dec-13										0.00
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

*Liquid sludge transportation is expressed in dry metric tons (DMT).

Table 4B
Monthly Biosolids Allocations to Contractors
Wards Island Dewatering Facility

Month	Tully Environmental Contract 947 ADM3 (DMT)*	EPIC (Landfill) Contract 1247-BIO (DMT)*	Coastal Distributions Contract 1250-BIO (DMT)*	Interstate Waste Services Contract 1280-BIO (DMT)*	We Care Organics Contract 1236-BIO (DMT)*	We Care Organics Contract 1308-BIO (DMT)*	TOTALS (DMT)*
Jan-13		229.43	1689.86				1,919.29
Feb-13		757.49	1738.25				2,495.75
Mar-13		1079.32	1236.31	137.07			2,452.70
Apr-13	552.84	949.10	1091.87				2,593.81
May-13	82.09	42.18	2052.44				2,176.71
Jun-13		839.27		28.83	817.99		1,686.09
Jul-13		325.83			1531.31		1,857.14
Aug-13		685.54		28.25	1510.75		2,224.54
Sep-13		527.01			1571.28		2,098.28
Oct-13		880.38			1556.98		2,437.36
Nov-13		465.91			572.27	1267.78	2,305.97
Dec-13		538.56		58.27		2316.94	2,913.78
TOTALS	634.93	7,320.02	7,808.74	252.42	7,560.58	3,584.72	27,161.41

Notes:

*Biosolids allocation is expressed in dry metric tons (DMT).

APPENDIX - B

Table 5A.....Monthly Average Metals Data for Liquid
Sludge

Table 5B.....Monthly Average Metals Data for
Biosolids

Table 5A
Monthly Metals Concentrations for Liquid Sludge
Wards Island WWTP

Month	METALS										
	Arsenic mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Copper mg/L	Lead mg/L	Mercury mg/L	Molybdenum mg/L	Nickel mg/L	Selenium mg/L	Zinc mg/L
January-13	0.0607	0.0031	0.0725	0.5440	10.20	2.08	0.0530	0.1160	0.3100	0.0650	16.0
February-13	0.0682	0.0031	0.0700	0.5220	9.73	1.90	0.0461	0.1120	0.3220	0.0656	15.3
March-13	0.0663	0.0032	0.0750	0.6080	9.93	2.12	0.0300	0.1190	0.3270	0.0722	16.5
April-13	0.0631	0.0032	0.0526	0.4750	8.55	1.65	0.0168	0.1040	0.2610	0.0638	14.0
May-13	0.0663	0.0043	0.0674	0.6380	9.39	2.29	0.0236	0.1130	0.3360	0.0717	16.5
June-13	0.0613	0.0040	0.0644	0.6170	9.57	2.48	0.0352	0.1090	0.3260	0.0706	15.2
July-13	0.0545	0.0035	0.0663	0.6410	10.70	2.66	0.0226	0.1750	0.3240	0.0680	16.7
August-13	0.0548	0.0040	0.0300	0.5870	11.90	2.66	0.0211	0.1400	0.3250	0.0810	17.2
September-13	0.0443	0.0022	0.0482	0.5850	10.60	2.37	0.0197	0.1330	0.2810	0.0662	15.1
October-13	0.0445	0.0021	0.0455	0.4920	10.70	1.97	0.0182	0.1310	0.2390	0.0728	13.6
November-13	0.0444	0.0022	0.0555	0.5590	12.60	2.19	0.0225	0.1820	0.2750	0.0773	16.0
December-13	0.0442	0.0020	0.0570	0.6520	12.10	2.23	0.0201	0.1560	0.3190	0.0721	15.4

Table 5B
Monthly Metals Concentrations for Biosolids
Wards Island Dewatering Facility

Month	METALS									
	Arsenic mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Copper mg/Kg	Lead mg/Kg	Mercury mg/Kg	Molybdenum mg/Kg	Nickel mg/Kg	Selenium mg/Kg	Zinc mg/Kg
January-13	3.33	5.67	40.3	633.0	140.0	1.6	11.2	20.7	4.5	998.0
February-13	4.48	5.59	41.0	594.0	125.0	1.3	8.8	19.5	4.9	961.0
March-13	3.97	5.42	44.5	588.0	139.0	1.9	7.5	21.0	4.1	979.0
April-13	4.14	4.95	45.4	567.0	127.0	1.7	10.0	20.1	5.1	931.0
May-13	3.64	4.41	42.5	545.0	133.0	1.4	8.2	18.8	5.2	913.0
June-13	3.12	4.71	43.40	503.00	155.0	1.5	7.2	20.7	4.4	890.0
July-13	1.93	4.06	40.60	602.00	165.0	1.7	12.5	19.0	3.3	997.0
August-13	2.85	1.83	40.30	601.00	148.0	1.7	9.6	20.8	4.2	1040.0
September-13	2.43	3.21	36.80	640.00	150.0	1.4	9.5	17.0	4.0	965.0
October-13	3.08	4.31	39.60	746.00	153.0	1.5	16.6	19.1	4.9	1022.0
November-13	2.21	4.34	46.20	704.00	145.0	1.6	15.2	19.2	3.7	991.0
December-13	2.20	3.68	39.60	660.00	161.0	1.9	11.8	22.8	3.4	895.0

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CONTRACTORS' ISSUES

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CONTRACTORS' ISSUES

There were not issues with any of the contracts for the reporting period of January 1 through December 31, 2013.